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Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2008; month=7; day=11; hr=14; min=27; sec=24; ms=843; ]

=====

\*\*\*\*\*

Reviewer Comments:

1

SEQUENCE LISTING

Please remove the "1" which appears at the beginning of the submitted sequence listing.

<210> 1

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<400> 1

atggaagggtc cagtgttctc

Please insert a cumulative nucleotide total at the right margin of each nucleotide line. This error appears in most of the sequences in the submitted file.

<210> 3

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

20

20  
<400> 3  
2  
20  
15  
tccataacgt tcctgatgct

Please remove the "stray" numbers appearing between the <223> line and the <400> line; and between the <400> line and the nucleotides. This type of error appears in many of the sequences. Please insert a cumulative nucleotide total at the right margin of the nucleotide line.

<210> 4  
<211> 15  
<212> DNA  
<213> Artificial sequence  
<220>  
<223> Synthetic oligonucleotide  
<400> 4  
gctagatggt agcgt

Please reduce the spaces between "Artificial" and "sequence" on the <213> line. Another global error. Also, please insert the cumulative nucleotide total.

<210> 6  
<211> 15  
<212> DNA  
<213> Artificial sequence  
<220>  
<223> Synthetic oligonucleotide  
<400> 6  
gcatgacgtt gagct

15  
Pleaes move the "15" up to the nucleotide line.

<210> 8  
<211> 20  
<212> DNA  
<213> Artificial sequence  
<220>  
<223> Synthetic oligonucleotide

<400> 8

tccatgagct tcctgagtct  
20

Please: reduce the many blank lines between the <400> line and the nucleotide line; 2) move the "20" up to the nucleotide line. These types of errors appear globally.

<210> 14

<211> 15

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<220>

<221> modified base  
<222> (7)..(7)-  
<223> m5c

<400> 14  
gctagacggtt agcgt

Please remove the hyphen "-" after the last "7" on the <222> line. This type of error appears globally. Please insert the cumulative nucleotide total on the nucleotide line.

<400> 56  
catttccacg atttccca  
20  
20  
18  
18

Please insert the cumulative total at the right margin of the nucleotide line.

Please remove the 4 lines of numbers above, which appear at the end of the submitted file.

\*\*\*\*\*

Application No: 10743625 Version No: 2.0

Input Set:

Output Set:

**Started:** 2008-06-06 11:01:51.857  
**Finished:** 2008-06-06 11:02:52.167  
**Elapsed:** 0 hr(s) 1 min(s) 0 sec(s) 310 ms  
**Total Warnings:** 62  
**Total Errors:** 84  
**No. of SeqIDs Defined:** 56  
**Actual SeqID Count:** 56

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 20 SEQID(1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 20 SEQID(2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
E 321	No. of Bases conflict, this line has no nucleotides SEQID (3)
E 321	No. of Bases conflict, this line has no nucleotides SEQID (3)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 20 SEQID(3)
W 402	Undefined organism found in <213> in SEQ ID (4)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 15 SEQID(4)
W 402	Undefined organism found in <213> in SEQ ID (5)
W 402	Undefined organism found in <213> in SEQ ID (6)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 15 SEQID(6)
W 333	tabs used in amino acid numbering SEQID (6)
W 402	Undefined organism found in <213> in SEQ ID (7)
W 402	Undefined organism found in <213> in SEQ ID (8)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 20 SEQID(8)

**Input Set:**

**Output Set:**

**Started:** 2008-06-06 11:01:51.857  
**Finished:** 2008-06-06 11:02:52.167  
**Elapsed:** 0 hr(s) 1 min(s) 0 sec(s) 310 ms  
**Total Warnings:** 62  
**Total Errors:** 84  
**No. of SeqIDs Defined:** 56  
**Actual SeqID Count:** 56

Error code	Error Description
E 323	Invalid/missing amino acid numbering SEQID (8) POS (1)
E 323	Invalid/missing amino acid numbering SEQID (8)at Protein (5)
W 333	tabs used in amino acid numbering SEQID (8)
W 402	Undefined organism found in <213> in SEQ ID (9)
W 402	Undefined organism found in <213> in SEQ ID (10)
W 402	Undefined organism found in <213> in SEQ ID (11)
W 402	Undefined organism found in <213> in SEQ ID (12)
W 402	Undefined organism found in <213> in SEQ ID (13)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 15 SEQID(13)
E 323	Invalid/missing amino acid numbering SEQID (13) POS (1)
E 321	No. of Bases conflict, this line has no nucleotides SEQID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
E 257	Invalid sequence data feature in <221> in SEQ ID (14)
W 401	Unrecognized range formatin <222> in SEQID (14)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 15 SEQID(14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
E 257	Invalid sequence data feature in <221> in SEQ ID (15)
E 257	Invalid sequence data feature in <221> in SEQ ID (15)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 15 SEQID(15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
E 254	The total number of bases conflicts with running total Input: 0,

**Input Set:**

**Output Set:**

**Started:** 2008-06-06 11:01:51.857  
**Finished:** 2008-06-06 11:02:52.167  
**Elapsed:** 0 hr(s) 1 min(s) 0 sec(s) 310 ms  
**Total Warnings:** 62  
**Total Errors:** 84  
**No. of SeqIDs Defined:** 56  
**Actual SeqID Count:** 56

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 20 SEQID(17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 20 SEQID(18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
E 257	Invalid sequence data feature in <221> in SEQ ID (19)
E 257	Invalid sequence data feature in <221> in SEQ ID (19)
E 257	Invalid sequence data feature in <221> in SEQ ID (19)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 20 SEQID(19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)
E 257	Invalid sequence data feature in <221> in SEQ ID (20)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 20 SEQID(20)
E 323	Invalid/missing amino acid numbering SEQID (20) POS (1)
E 323	Invalid/missing amino acid numbering SEQID (20)at Protein (5)
E 321	No. of Bases conflict, this line has no nucleotides SEQID (20)
E 321	No. of Bases conflict, this line has no nucleotides SEQID (20)
E 321	No. of Bases conflict, this line has no nucleotides SEQID (20)
E 321	No. of Bases conflict, this line has no nucleotides SEQID (20)
W 213	Artificial or Unknown found in <213> in SEQ ID (21)
E 257	Invalid sequence data feature in <221> in SEQ ID (21)

**Input Set:**

**Output Set:**

**Started:** 2008-06-06 11:01:51.857  
**Finished:** 2008-06-06 11:02:52.167  
**Elapsed:** 0 hr(s) 1 min(s) 0 sec(s) 310 ms  
**Total Warnings:** 62  
**Total Errors:** 84  
**No. of SeqIDs Defined:** 56  
**Actual SeqID Count:** 56

Error code	Error Description
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 20 SEQID(21)
W 213	Artificial or Unknown found in <213> in SEQ ID (22)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 20 SEQID(22)
W 213	Artificial or Unknown found in <213> in SEQ ID (23)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 20 SEQID(23)
W 213	Artificial or Unknown found in <213> in SEQ ID (24)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 20 SEQID(24)
W 213	Artificial or Unknown found in <213> in SEQ ID (25)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 20 SEQID(25)
W 213	Artificial or Unknown found in <213> in SEQ ID (26)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 20 SEQID(26) This error has occurred more than 20 times, will not be displayed
W 213	Artificial or Unknown found in <213> in SEQ ID (27)
E 257	Invalid sequence data feature in <221> in SEQ ID (27)
W 401	Unrecognized range format in <222> in SEQID (27)
W 213	Artificial or Unknown found in <213> in SEQ ID (28)
E 257	Invalid sequence data feature in <221> in SEQ ID (28)
W 213	Artificial or Unknown found in <213> in SEQ ID (29)
W 213	Artificial or Unknown found in <213> in SEQ ID (30) This error has occurred more than 20 times, will not be displayed
E 257	Invalid sequence data feature in <221> in SEQ ID (33)



**Input Set:**

**Output Set:**

**Started:** 2008-06-06 11:01:51.857  
**Finished:** 2008-06-06 11:02:52.167  
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**Total Warnings:** 62  
**Total Errors:** 84  
**No. of SeqIDs Defined:** 56  
**Actual SeqID Count:** 56

Error code	Error Description
E 257	Invalid sequence data feature in <221> in SEQ ID (34)
W 402	Undefined organism found in <213> in SEQ ID (39)
W 402	Undefined organism found in <213> in SEQ ID (40)
W 402	Undefined organism found in <213> in SEQ ID (41)
W 402	Undefined organism found in <213> in SEQ ID (42)
W 402	Undefined organism found in <213> in SEQ ID (43)
E 321	No. of Bases conflict, this line has no nucleotides SEQID (43)
E 355	Empty lines found between the amino acid numbering and the
E 321	No. of Bases conflict, this line has no nucleotides SEQID (43)
E 355	Empty lines found between the amino acid numbering and the
E 321	No. of Bases conflict, this line has no nucleotides SEQID (43)
W 402	Undefined organism found in <213> in SEQ ID (44)
W 402	Undefined organism found in <213> in SEQ ID (45)
W 402	Undefined organism found in <213> in SEQ ID (46)
W 402	Undefined organism found in <213> in SEQ ID (47)
W 402	Undefined organism found in <213> in SEQ ID (48) This error has occurred more than 20 times, will not be displayed
E 323	Invalid/missing amino acid numbering SEQID (48) POS (1)
E 321	No. of Bases conflict, this line has no nucleotides SEQID (48)
E 321	No. of Bases conflict, this line has no nucleotides SEQID (48)
E 257	Invalid sequence data feature in <221> in SEQ ID (52)
W 401	Unrecognized range format in <222> in SEQID (52)
E 257	Invalid sequence data feature in <221> in SEQ ID (53)

**Input Set:**

**Output Set:**

**Started:** 2008-06-06 11:01:51.857  
**Finished:** 2008-06-06 11:02:52.167  
**Elapsed:** 0 hr(s) 1 min(s) 0 sec(s) 310 ms  
**Total Warnings:** 62  
**Total Errors:** 84  
**No. of SeqIDs Defined:** 56  
**Actual SeqID Count:** 56

Error code	Error Description
W 401	Unrecognized range formatin <222> in SEQID (53)
E 323	Invalid/missing amino acid numbering SEQID (56) POS (1)
E 323	Invalid/missing amino acid numbering SEQID (56)at Protein (5)
E 321	No. of Bases conflict, this line has no nucleotides SEQID (56)
E 321	No. of Bases conflict, this line has no nucleotides SEQID (56)
E 321	No. of Bases conflict, this line has no nucleotides SEQID (56)

1

SEQUENCE LISTING

<110> Krieg, Arthur M  
Kline, Joel N

<120> IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES  
<130> C1039.70073US00

<140> 10743625  
<141> 2003-12-22

<150> US 08/276,358  
<151> 1994-07-15

<150> US 08/386,063  
<151> 1995-02-07

<150> US 08/738,652  
<151> 1996-10-30

<150> US 09/818,918  
<151> 2001-03-27

<160> 56

<170> PatentIn version 3.3

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15

20

20

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<220>  
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